

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P291672

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-FGW080-UNV-L92765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1349.0 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

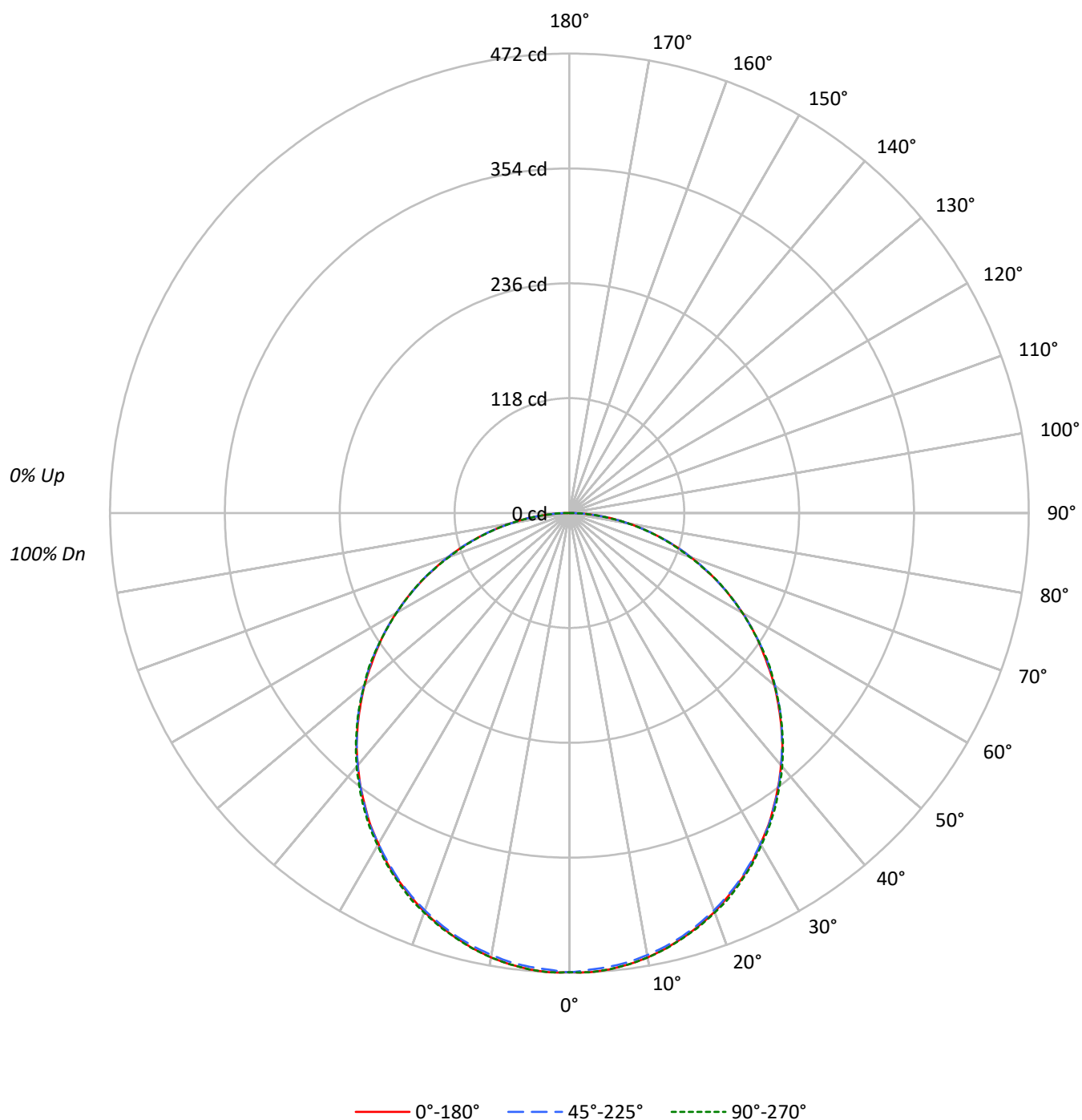
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1270	1270	1270
5°	1271	1264	1271
10°	1267	1260	1267
15°	1258	1253	1259
20°	1249	1244	1251
25°	1235	1233	1239
30°	1219	1219	1225
35°	1204	1206	1211
40°	1188	1189	1195
45°	1170	1173	1175
50°	1150	1154	1152
55°	1127	1133	1131
60°	1105	1105	1105
65°	1079	1079	1084
70°	1045	1045	1035
75°	1009	1004	1000
80°	962	956	948
85°	905	892	865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	3.3
10°-20°	127.3	9.4
20°-30°	191.9	14.2
30°-40°	229.9	17.0
40°-50°	237.8	17.6
50°-60°	215.6	16.0
60°-70°	167.6	12.4
70°-80°	102.3	7.6
80°-90°	32.0	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	363.8	27.0
0°-40°	593.7	44.0
0°-60°	1047.1	77.6
0°-90°	1349.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1349.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	472	472	472	472	472	
5°	470	470	468	470	470	45
15°	452	452	450	452	452	127
25°	416	416	415	418	417	192
35°	367	367	367	369	369	229
45°	308	308	308	309	309	237
55°	240	241	242	242	241	215
65°	170	170	170	169	170	167
75°	97	97	97	96	96	103
85°	29	28	29	28	28	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	471.8	471.8	471.8	471.8	471.8
2.5°	472.2	471.8	469.6	471.8	472.2
5°	470.5	470.0	467.9	470.0	470.5
7.5°	467.5	467.5	465.3	467.5	467.5
10°	463.6	463.1	461.0	463.1	463.6
12.5°	458.0	458.0	455.8	458.0	458.4
15°	451.5	451.5	449.8	451.9	451.9
17.5°	444.2	444.6	442.4	445.0	445.0
20°	436.0	435.5	434.3	436.4	436.8
22.5°	426.1	426.5	425.2	427.8	428.2
25°	416.1	416.1	415.3	417.9	417.4
27.5°	405.4	405.4	404.1	406.2	406.7
30°	392.4	392.9	392.4	394.6	394.1
32.5°	380.4	380.8	380.8	381.6	382.1
35°	366.6	367.0	367.0	368.7	368.7
37.5°	352.8	352.8	353.2	354.5	354.5
40°	338.1	338.5	338.5	339.8	340.2
42.5°	323.9	323.0	323.4	324.7	324.7
45°	307.5	307.9	308.3	308.8	308.8
47.5°	291.1	291.9	292.4	292.8	292.4
50°	274.7	275.6	275.6	275.1	275.1
52.5°	257.0	259.2	258.7	258.7	259.6
55°	240.2	241.1	241.5	241.5	241.1
57.5°	223.4	224.2	223.4	223.8	222.9
60°	205.3	205.7	205.3	205.3	205.3
62.5°	187.6	188.0	187.2	187.2	187.2
65°	169.5	169.5	169.5	168.6	170.3
67.5°	150.5	151.4	151.4	151.8	150.1
70°	132.8	133.3	132.8	132.4	131.5
72.5°	115.1	115.6	116.0	114.3	113.8
75°	97.0	97.0	96.6	96.2	96.2
77.5°	79.3	79.3	79.3	78.5	78.5
80°	62.1	62.5	61.7	61.7	61.2
82.5°	45.3	45.3	45.3	44.8	44.0
85°	29.3	28.5	28.9	28.0	28.0
87.5°	13.4	13.4	13.4	12.5	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)